This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1-33 (canceled)

34. (currently amended) A method of enucleating a cell comprising:

visualizing internal structure of a cell utilizing ~~a two-photon laser scanning microscope~~ light in the near infrared region and ablating ~~a~~ the nucleus of the cell, thereby enucleating a cell.

35. (canceled)

36. (previously presented)The method of claim 34 wherein the nucleus is ablated by laser light.

37. (previously presented)The method of claim 34 wherein the nucleus is ablated by near-infrared light.

38. (previously presented)The method of claim 37 wherein the near-infrared light has a wavelength in a range of about 700nm to about 1000nm.

39. (currently amended) The method of claim ~~34~~ 57 wherein the two-photon laser scanning microscope provides ~~light energy~~ the near-infrared light to ablate the nucleus.

40. (canceled)

41. (currently amended) The method of claim ~~40~~ 39 wherein the near-infrared light has a wavelength in a range of about 700nm to about 1000nm.

42. (currently amended) The method of claim 34 wherein the nucleus is ~~ablated~~

mechanically removed.

43. (previously presented)The method of claim 34 wherein the cell is an avian cell.

44. (currently amended) The method of claim 34 wherein ~~an oocyte comprises~~ the cell is an oocyte.

45. (currently amended) The method of claim 34 wherein ~~an ovum comprises~~ the cell is an ovum.

46. (currently amended) The method of claim 34 wherein ~~a zygote comprises~~ the cell is a zygote.

47. (currently amended) The method of claim 34 wherein ~~a blastoderm comprises~~ the cell is a blastoderm.

48. (currently amended) A method of enucleating a cell comprising:

visualizing internal structure of a cell utilizing ~~a two-photon laser scanning microscope~~ light in the near infrared region and ablating a nucleus utilizing the light in the near infrared region ~~energy provided by the microscope~~, thereby enucleating a cell.

49. (previously presented)The method of claim 48 wherein the nucleus is ablated by laser light.

50. (canceled)

51. (previously presented)The method of claim 48 wherein the near-infrared light has a wavelength in a range of about 700nm to about 1000nm.

52. (previously presented)The method of claim 48 wherein the cell is an avian

cell.

53. (currently amended) The method of claim 48 wherein ~~an oocyte comprises~~ the cell is an oocyte.

54. (currently amended) The method of claim 48 wherein ~~an ovum comprises~~ the cell is an ovum.

55. (currently amended) The method of claim 48 wherein ~~a zygote comprises~~ the cell is a zygote.

56. (currently amended) The method of claim 48 wherein ~~a blastoderm comprises~~ the cell is a blastoderm.

57. (new) The method of claim 34 wherein the internal structure of the cell is visualized with near infrared light using two photon laser scanning microscopy.

58. (new) The method of claim 48 wherein the internal structure of the cell is visualized with near infrared light using two photon laser scanning microscopy.